



US 20170026745A1

(19) **United States**(12) **Patent Application Publication**
CHUN et al.(10) **Pub. No.: US 2017/0026745 A1**(43) **Pub. Date: Jan. 26, 2017**(54) **METHOD AND APPARATUS FOR
CONTROLLING OUTPUT BASED ON TYPE
OF CONNECTOR****H04R 1/10** (2006.01)**H01R 24/58** (2006.01)**H04R 1/08** (2006.01)(71) Applicant: **Samsung Electronics Co., Ltd.**,
Gyeonggi-do (KR)(52) **U.S. Cl.**CPC **H04R 3/00** (2013.01); **H01R 24/58**
(2013.01); **H04R 1/08** (2013.01); **H04R**
1/1033 (2013.01); **H04R 29/001** (2013.01);
H01R 2105/00 (2013.01)(72) Inventors: **Youngsoo CHUN**, Gyeonggi-do (KR);
Jaeyoung Shin, Gyeonggi-do (KR);
Sangyong Kim, Gyeonggi-do (KR);
Jungsik Park, Gyeonggi-do (KR);
Kwonho Song, Gyeonggi-do (KR);
Sehwan Choi, Gyeonggi-do (KR);
Heejun Ryu, Gyeonggi-do (KR)(73) Assignee: **Samsung Electronics Co., Ltd.**(21) Appl. No.: **15/215,202**(22) Filed: **Jul. 20, 2016**(30) **Foreign Application Priority Data**

Jul. 20, 2015 (KR) 10-2015-0102640

Publication Classification(51) **Int. Cl.****H04R 3/00** (2006.01)**H04R 29/00** (2006.01)(57) **ABSTRACT**

A method of controlling the output according to a type of connector and an electronic device adapted to the method are provided. The method includes determining whether a first, second and third external connector is inserted into a receptacle, via a circuit connected to the receptacle, wherein the receptacle is configured to receive the first, second or third external connector, each of the first and second connector includes a first number of contacts, and the third external connector includes a second number of contacts less than the first number of contacts; providing an audio output signal to the first external connector in a first manner when the first external connector is inserted into the receptacle; providing an audio output signal to the second external connector in a second manner which differs from the first manner when the second external connector is inserted into the receptacle; and providing an audio output signal to the third external connector in a third manner which differs from the first and second manners when the third external connector is inserted into the receptacle.

